

State GIS Coordination Update: 2018

- Tennessee Department of Finance and Administration
 - Strategic Technology Solutions (STS) – GIS Services
 - Dennis Pedersen, Director
- *April 25, 2018*

Agenda

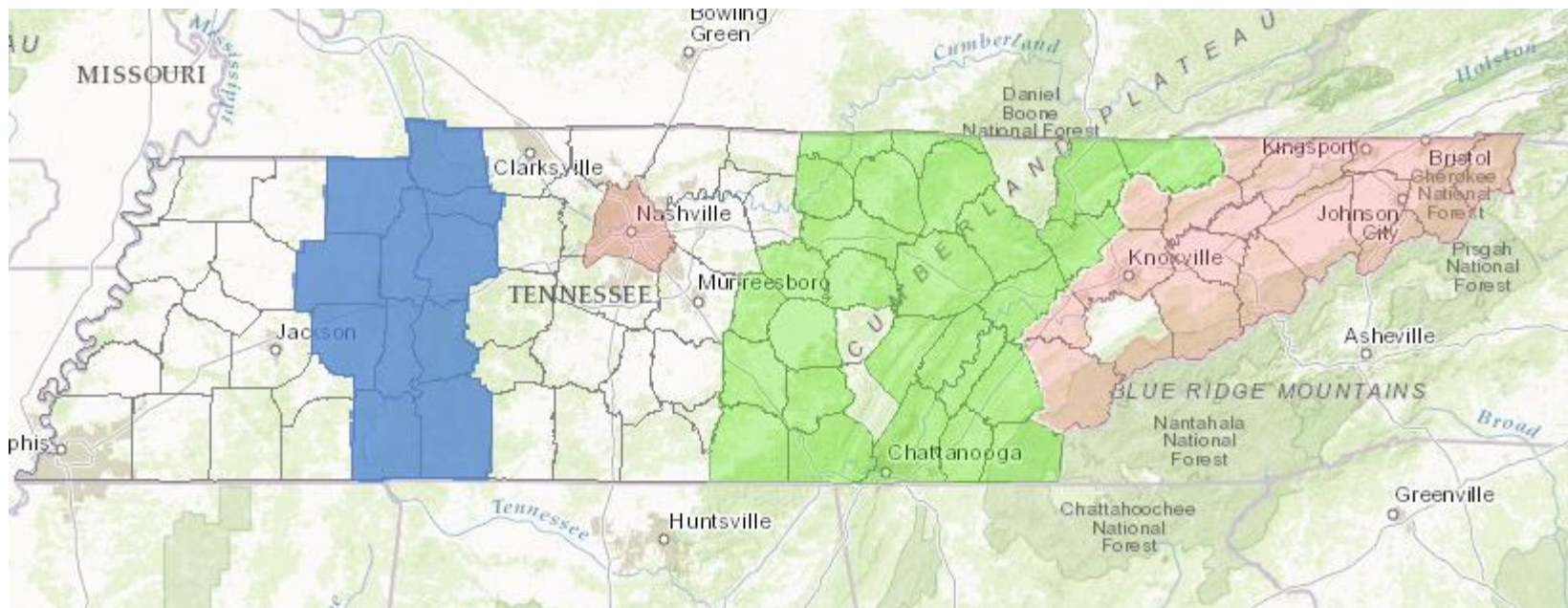
- **USGS/3DEP (LiDAR) Project**
 - Current Status and Funding Partnerships
 - Data Access
 - Training Program
- **USGS – 3D Nation Study/Needs Assessment**
- **Census – Local Update of Census Addresses (LUCA)**
- **Recap other GIS initiatives in STS-GIS**
- **Questions**

USGS/3DEP LiDAR Project

- **Where are we now and where are we going?**

USGS/3DEP LiDAR Project

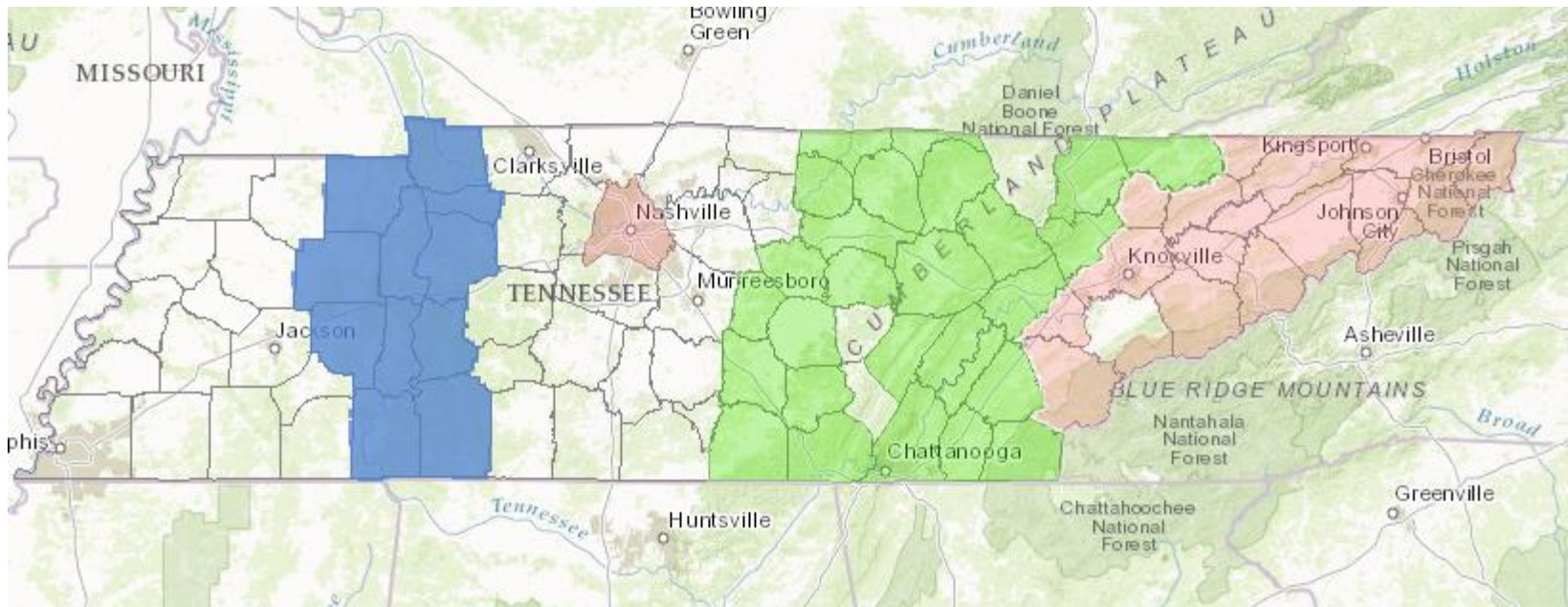
- **2015-2016 Cumberland and East TN Data**
 - Complete
 - Available for download on tngis.org



USGS/3DEP LiDAR Project

- **2017 West TN Data Production Status**

- 11 counties acquired Feb/March 2017
- Processing and independent QA/QC complete
- USGS shipping final dataset by mid May



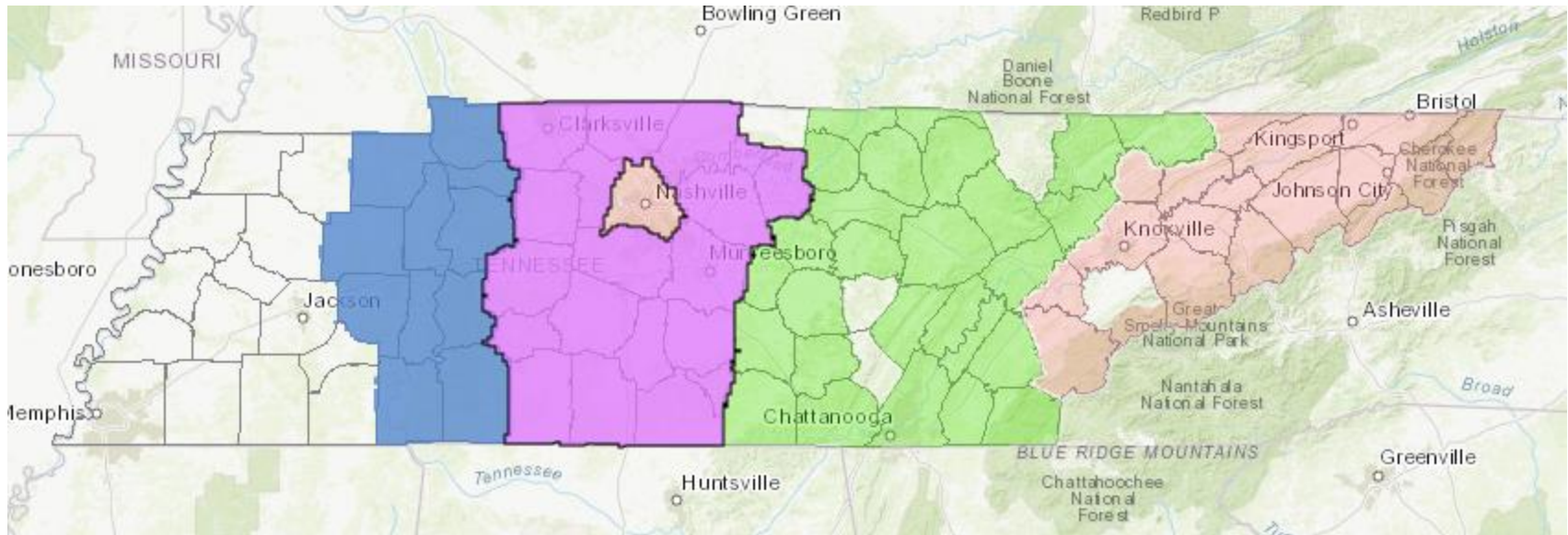
USGS/3DEP LiDAR Project

- **2017 West TN Funding Sources**
 - TN Dept. of Transportation – 35% (\$500,000)
 - Other government sources – 30%
 - USDA/NRCS – (\$300,000)
 - TVA – (\$50,000)
 - State of TN, STS-GIS Services - (\$80,000)
- **USGS 3DEP Funding – 35% (\$500,000)**
- Estimated 11 county total cost - \$1.43 million

USGS/3DEP LiDAR Project

- **2018 Middle TN Data Production Status**

- 19 counties acquired Feb/March 2018
- Processing and pilot area work beginning
- USGS shipping final dataset by mid May 2019



USGS/3DEP LiDAR Project

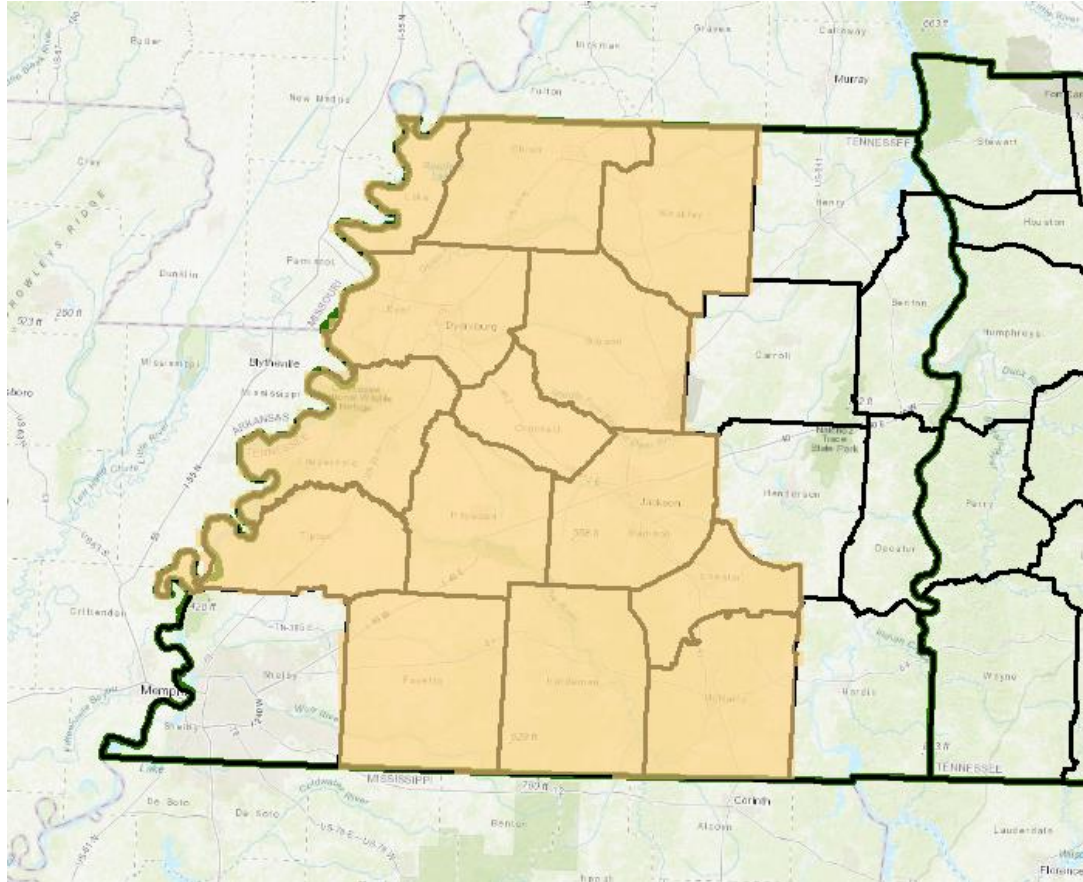
- **2018 Middle TN Funding Sources**
 - TN Dept. of Transportation – 35% (\$731,000)
 - Other government sources – 30%
 - USDA/NRCS – (\$300,000)
 - TVA – (\$50,000)
 - Williamson County – (\$91,000)
 - Rutherford County – (\$98,000)
 - State of TN, STS-GIS Services - (\$87,000)
- **USGS 3DEP Funding – 35% (\$731,000)**
- Estimated 19 county total cost - \$2.1 million

USGS 3DEP Funding Totals: 2015-2018

	Federal	State	Local	USGS	Total
2015	\$820,000 (4 Agencies)	\$1,118,000 (2 Agencies)	\$72,000 (1 County)	\$670,000	\$2,680,000
2016	\$390,000 (3 Agencies)	\$643,000 (2 Agencies)	\$377,000 (8 City/County)	\$600,000	\$2,010,000
2017	\$350,000 (2 Agencies)	\$582,000 (2 Agencies)	\$0	\$502,000	\$1,434,000
2018	\$350,000 (2 Agencies)	\$818,000 (2 Agencies)	\$190,000 (2 Counties)	\$731,000	\$2,089,000
Total	\$1,910,000	\$3,161,000	\$639,000	\$2,503,000	\$8,213,000

USGS/3DEP LiDAR Project – West TN

- **2019 Potential Project**



USGS/3DEP LiDAR Project – West TN

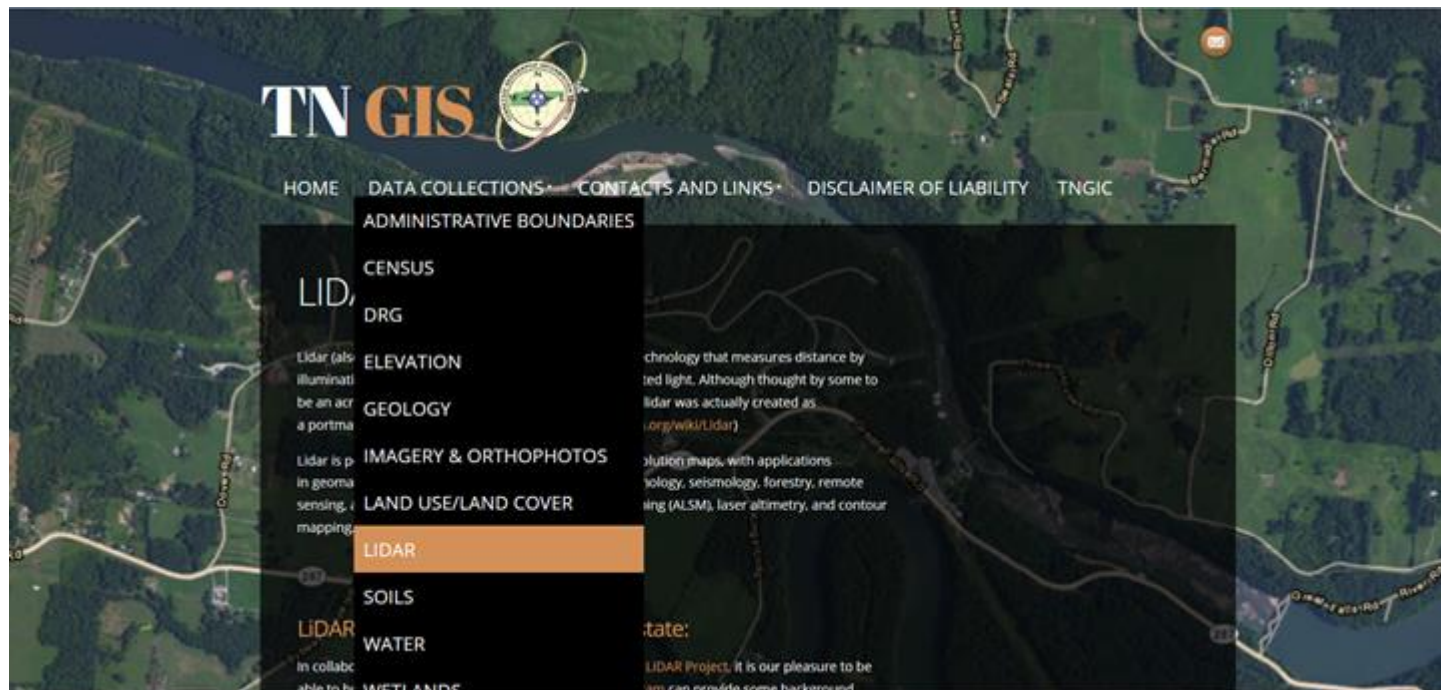
- **2019 Potential Project**

- Why West TN?
 - Original collection by USDA in 2011-12 (8 years old)
 - Not to 3DEP/State specifications (building footprints, coord. system)
- Potential Funding Partners: TDOT, USDA, USACE-Memphis, Tipton County, STS-GIS Services, USGS, others???
- If awarded by USGS:
 - Collection in Feb/March 2019
 - Delivery in late April 2020

USGS/3DEP LiDAR Project

- **Data Access**

- Cumberland and East (45 counties) currently available
- <http://tngis.org> – TNGIC Data Clearinghouse via Google Drive
- <http://tnmap.tn.gov> – links from “GIS Data” page to Google Drive



USGS/3DEP LiDAR Project

- **Training Program**

- Goal: Provide GIS users with hands-on experience visualizing, managing and analyzing lidar data
- Training Sponsors include:
 - TNGIC and State of TN, STS-GIS Services
 - Woolpert and GeoCue
- Classes held and upcoming:
 - Six classes taught in 2017 – 109 students total
 - QGIS training surveyors/engineers/non-Esri users - 2018
 - TN Tech – summer 2018
 - Researching WebEx sessions

Agenda

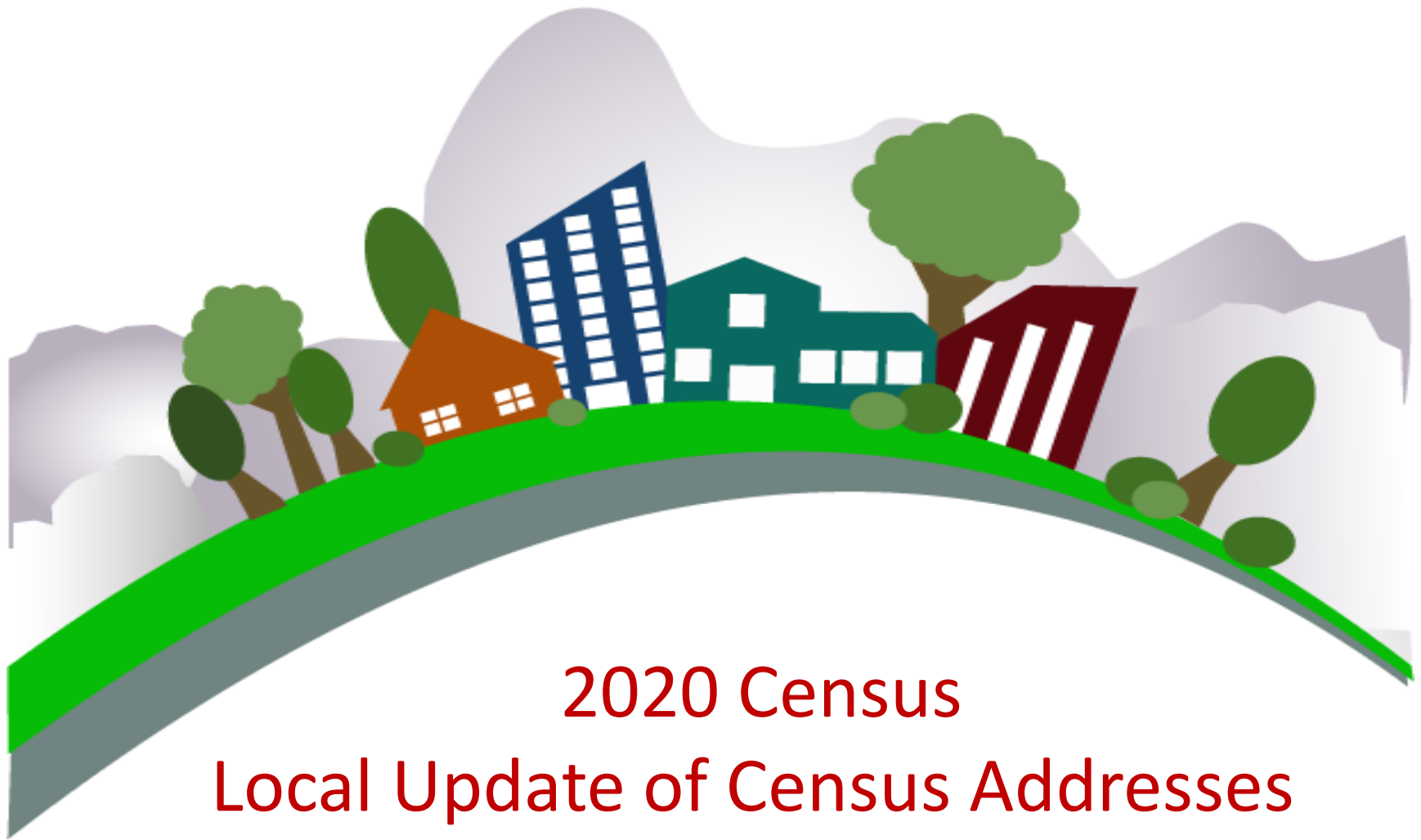
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USGS/3D Nation Study/Needs Assessment

- Goal: Coordinate topographic, coastal, and bathymetric mapping activities across the Nation
- 3D Nation builds upon 3DEP but includes the need for inland rivers, oceans, coasts, and Great Lakes
- STS-GIS Services coordinating State/local gov. response
- Participants will complete questionnaire and identify benefits/mission critical activities
- Phased study will be completed in late 2019

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2020 Census Local Update of Census Addresses Operation (LUCA)

Census LUCA: Background

- Authorized by the Census Address List Improvement Act of 1994 (Public Law 103-430)
- Implemented in the support of the 2000 Census and refined to support the 2010 Census
- Provides a voluntary opportunity for designated representatives of tribal, state and local governments to review and comment on the addresses used to conduct the decennial census

Census LUCA: Why is this important?

- Federal funding to the States is based on population count
- Need to get the census form to every residential address in TN
- \$400 Billion dollars allocated to support a wide range of programs
- Want to maximize Tennessee's funding potential

Census LUCA: Participation Map

Tennessee LUCA Participation Status

The State has Registered

State Status



Legend

County Status

Registered

Declined

Boundary

County Subdivisions & Incorporated Places

Registered

Declined

CURRENT AS OF: 2/20/2018

0 30 60 120 Miles

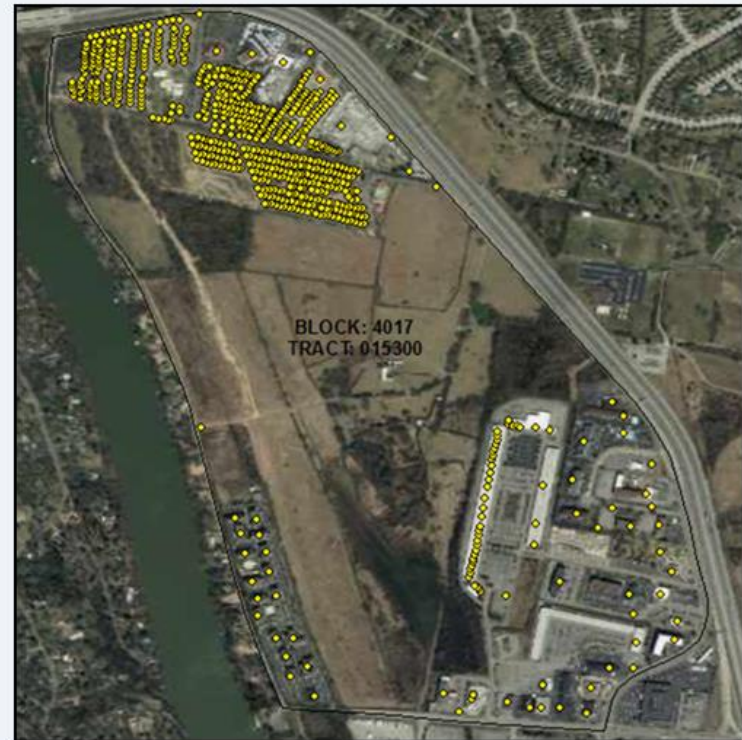
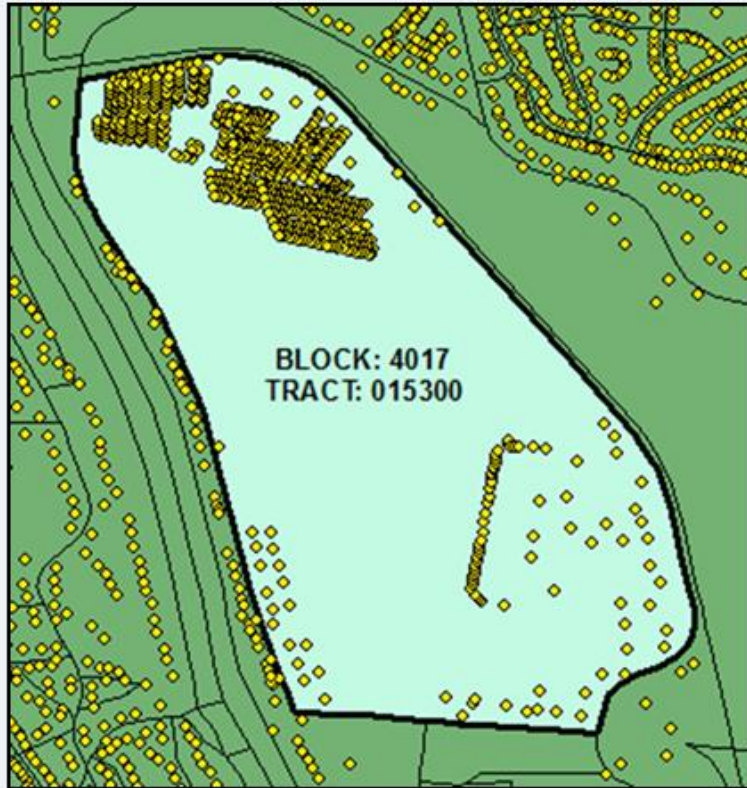


Document Path: W:\2020 Census\GEO FOLDER\Tennessee Project\LUCA_Participation.mxd

Census LUCA: TN Implementation

- Leverage the following resources:
 - TN Development Districts (GIS staff)
 - TIPS Address Points (authoritative dataset)
 - GIS software
 - Compare census address list by block with TIPS address features by block
 - Focus on significant mismatch areas

Census LUCA: GIS Data, Tools, and Process



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State of TN STS-GIS: Other initiatives

- <http://tnmap.tn.gov>
 - Open Data Initiative
 - click “GIS Data”, then “TNMap Open Data Portal”
 - GIS Training:
 - Forestry – Land owner assistance program using ArcGIS Pro
 - Internal State GIS training
 - FEMA RiskMap Training
 - GIS web mapping in the new “tn.gov”
 - Other internal State agency GIS projects

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